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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/582,179	09/17/2007	Masanori Ogawa	2710/76418	9218	
Donald S Dowden Cooper & Dunham			EXAMINER		
			TORRES VELAZQUEZ, NORCA LIZ		
1185 Avenue of the Americas New York, NY 10036			ART UNIT	PAPER NUMBER	
				1794	
			MAIL DATE	DELIVERY MODE	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/582,179	OGAWA ET AL.
Office Action Summary	Examiner	Art Unit
	Norca L. Torres-Velazquez	1794
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the c	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING ID. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statul Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tired will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>08 €</u> 2a) This action is FINAL . 2b) This action is FINAL . 2b) This action for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 1 and 3-9 is/are pending in the appli 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1 and 3-9 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/open and/o	awn from consideration. or election requirement.	
 10) The drawing(s) filed on <u>17 September 2007</u> is Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction. 11) The oath or declaration is objected to by the Example 2007. 	e drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat ority documents have been receive au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 5 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 5 depends on a canceled claim (claim 2). For examining purposes, the Examiner assumes that it depends on claims 1 or 3. *Claim Rejections - 35 USC § 103*

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1 and 3-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over SERAFINI (US 4,935,295) in view of HOLTROP et al. (US 4,851,283).

SERAFINI discloses composite structure made by needling individual webs of initially spunbonded material and then needle-punching a stack of the individual webs. (Abstract) The reference teaches the use of thermal-bonded nonwoven, sheeting material. For example, spunbonded polypropylene and polyester. (Refer to Col. 2, lines 63-68) The reference teaches the use of spunbonded webs with basis weight ranging from less than 20 gsm to more than 200 gsm. (Col. 3, lines 42-47) The diameter of the needles used is of 2.8 mm and teaches that the spunbonded webs are needled in a concentration of 50 to 300 stitches per square centimeter. The reference also teaches that the exact degree of needling will vary with the kind and thickness of

spunbonded web which is used. (Col. 4, lines 30-36) SERAFINI also teaches that the needled webs can be used to envelop materials coated with or containing an additive such as a sustained or slow release chemical agent. (Col. 4, lines 64-68) It is also noted that the reference discloses that a single web can be used in the practice of the invention. (Col. 2, lines 4-5) With regards to the holes diameter, it is well settled that determination of optimum values of cause effective variables such as pore size is within the skill of one practicing the art. In re Boesch, 205 USPQ 215 (CCPA 1980). Using needles with thinner size will produce pores/holes of smaller diameter while also maintaining the strength of the material.

It is the Examiner's interpretation that the nonwoven web taught by SERAFINI reads on the presently claimed nonwoven fabric made of a nonwoven fabric manufactured by a spunbonding method, with a multiplicity of holes formed on it by a needle punching method. While the reference recognizes the use of coatings, it is silent to the particular use of an impregnation in the needle-punched spunbonded nonwoven.

However, nonwoven fabrics with a thermoplastic resin coating/impregnation are well known, as disclosed by JP '035. The JP '035 publication discloses an interior material that comprises needle-punched nonwoven cloth of synthetic resin fiber and a coating layer comprising a thermoplastic resin. The reference further teaches using such material for laminating with foamed polypropylene sheet for a ceiling, door trim, trunk room, etc, providing high adhesion with the foam polypropylene layer. (Refer to English abstract)

Thus, it would have been obvious to one having ordinary skill in the art of laminated materials to use a synthetic resin impregnation or coating to achieve the predictable result of a material that could be laminated to other components and provide it with good adhesion in

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molded applications such as door trims or trunk room. KSR International Co. V. Teleflex Inc.,

550 U.S.-, 82 USPQ2d 1385 (2007).

4. Claims 1, 3 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 04-

222265 A in view of JP 09-25469 A.

The JP '265 reference discloses a nonwoven fabric obtained by forming a plurality of

holes in a piece of long-fiber nonwoven fabric by means of needles with a diameter of 0.05 to

5.00 mm (refer to claims), the reference further indicates that the long-fiber nonwoven fabric is a

spun-bonded nonwoven fabric (refer to examples). It is the Examiner's interpretation that the

invention of the JP'265 reference can be considered to have holes of similar sizes (i.e. 0.05 to

5.00 mm). The reference is silent to impregnating the nonwoven fabric with a thermoplastic

resin. It is the Examiner's position that nonwoven fabrics impregnated with a resin are well

known in the art. The JP'469 reference teaches that nonwoven fabrics impregnated with resins

are useful as interior finishing materials. Therefore, it would have been obvious to one having

ordinary skill in the art to apply a resin to the needle-punched nonwoven fabric to achieve the

predictable result of producing a material with good adhesion when laminated to other layers in a

composite. KSR International Co. V. Teleflex Inc., 550 U.S.-, 82 USPQ2d 1385 (2007).

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

JP 11-335955 A – discloses a nonwoven fabric obtained by subjecting a spunbonded

nonwoven to a needle punching process.

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6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Norca L. Torres-Velazquez whose telephone number is 571-272-

1484. The examiner can normally be reached on Monday-Thursday 8:00-5:00 pm and alternate

Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Milton Cano can be reached on 571-272-1398. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Norca L. Torres-Velazquez/ Primary Examiner, Art Unit 1794